Only 38 mm thick, HD-ready, fanless and low power usage

XS 3510MA V2

Slim PC

PC System with Windows 7 HP

The Shuttle XS 3510MA V2 is a complete Mini-PC in the 1-litre class with Windows 7 Home Premium operating system. Intel's Atom D525 Dual Core Processor (2x 1.8 GHz) and the NM10 Express chipset serve as the energy-saving hardware platform. A high-performance Next-Generation NVIDIA® ION™ graphics card (ION2) provides streaming 3D and video playback. Thanks to the HDMI connection there is also excellent sound and picture quality. Other front and rear connections include 5 x USB, VGA, Gigabit LAN and Audio. For wireless communication, WLAN (n) is already integrated. The small casing includes a card reader, 2GB DDR3 memory, a 500GB hard disk and a DVD writer in slimline format. The XS 3510MA V2 is 100% passively cooled, and thus virtually noiseless.

Fanless

Feature Highlights

Chassis	• Slim 1.5 litre chassis • Dimensions: 25.2 x 16.2 x 3.84 cm • Hole for the Kensington Lock • Optional: VESA75/100 mounting kit PV01
Operating system	• Windows 7 Home Premium, 32 bit • Available in 6 languages
CPU	• Intel ATOM 525 Dual Core (2x 1.8GHz)
Chipset	• Intel NM10 Express Chipset
Graphics	• Discrete Next Gen. NVIDIA ION graphics 512MB DDR3, HDMI and VGA outputs
Memory	• 2GB DDR3 SO-DIMM (204 Pins)
Storage	• Slim-line DVD±RW super multi drive • 500GB hard disk, Serial ATA, 2.5“ format • 4-in-1 card reader
Connectors and WLAN	• HDMI (Digital Video & Digital Audio) • D-Sub VGA • 5x USB 2.0 (1x front, 4x rear) • Microphone input, Headphones output • Gigabit-LAN, WLAN 802.11 b/g/n
Power supply	• External 40W fanless power supply
Applications	• Home-Media

Images are only for illustration purposes.
Product name: **XS 3510MA V2**
Order number: **PET-XS352MA1**

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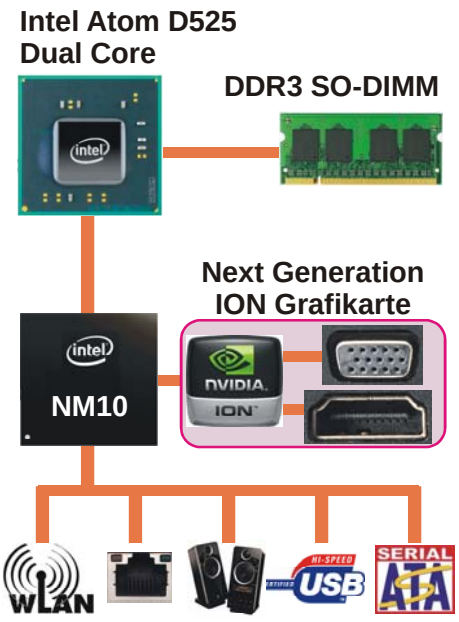
Shuttle Barebone XS 3510MA V2 - Product Features

Slim and stylish

Designed as a space-saver, this sleek 1.5 litre nettop PC only measures 3.8cm in width. It maximizes space whether it is placed upright using its stylish stand or affixed to the back of a display with the optional VESA mounting kit (PV01). Due to its small size and flexible design, this practical nettop offers exceptional functionality and is well-suited for home users, small offices, reception areas, classrooms, libraries, showrooms, call centres, public institutions and more.

Fanless and quiet

The Shuttle Barebone XS 3510MA V2 comes totally fanless making it perfect to be used in noise-sensitive environments such as living rooms, hospitals, libraries etc. As an additional benefit, fanless cases rarely gather dust on the inside and stay cleaner than others. So it's not only quiet and low in energy use, but also dust-free and virtually maintenance free.



The Atom processor integrates the memory controller

Shuttle XS 3510MA V2 is equipped with Intels Atom processor D525 (1.8GHz, codenamed Pineview-D). It comes with both the memory controller and graphics core on-die which helps to keep heat dissipation and memory latency low. The CPU is connected to the Southbridge NM10, codenamed Tiger Point.

Dual Core. Do more.

Shuttle always uses the dual-core variant of Intel's Atom processors and thus integrates the Atom D525. This boosts the system performance significantly with particular regards to multi-threaded applications.

Next Generation ION graphics

Even with the small size, the Shuttle Barebone XS 3510MA V2 is equipped with NVIDIA's Next Generation ION graphics for a power-packing slim PC that's unmatchable in size and performance – and is made for more than just entertainment. Key benefits are:

- Digital HDMI output to connect to large displays
- Digital Audio output over HDMI
- Experience video playback at full-HD 1080p resolution
- Ready to take on games
- HDMI and VGA supports dual view (clone or extended mode)

Two monitor support with HDMI (DVI) and VGA

The NVIDIA Next Generation ION (ION2) graphics card supports multiple display support on up to two separate monitors via HDMI (DVI through optional adapter) and D-Sub/VGA. This improves the capabilities and productivity of the user by allowing them to spread multiple windows over two monitors and view them simultaneously.

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4-in-1 card reader

The built-in 4-in-1 card reader at the front side makes it easy to transfer files from your camera so you can share videos and photos on your XS 3510MA V2 with ease.

Highly energy-saving

The XS 3510MA V2 barely consumes, depending on system load, about 20.5~29 Watts. Running the device*) 5 days a week for eight hours a day, the annual consumption would amount to approx. 60kWh which would mean just 12 Euros on the power bill (20 Euro ct/kWh) - way less than a conventional desktop PC draws.
*) Based on a configuration with 2GB of memory, 500GB hard disk, DVD drive and Windows 7

Kensington Lock

This is a small, metal-reinforced hole as part of an anti-theft system. As known from notebooks, this Mini-PC can also be safely locked by tieing it to a solid object.
(The lock-and-cable apparatus is not included.)

Tiny power adapter

The external 40W power adapter is virtually noiseless and can easily be hidden behind the desk thanks to its tiny dimensions.
Dimensions: 89.5 x 37 x 26.5 mm (LWH) = 88ml

Optional VESA mount (Accessory PV01)

Its optional VESA75/100 wallmount allows it to be installed on to walls or just affixed on the rear side of a monitor which is particularly interesting for the industry segment, company buildings and public institutions.

Note on operating position

Please make sure the system is always placed upright using either its stand or the optional VESA mount. Ventilation holes must not be blocked to ensure sufficient cooling.

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Shuttle Barebone XS 3510MA V2 Specifications

Fanless and silent	Passive cooling, no fan noise at all Perfect to be used in noise-sensitive environments Fanless, dust-free and thus virtually maintenance-free
Energy saving	Power consumption: ca. 20.5W (idle mode) and ca. 29W (full load)
Chassis	Dimensions without stand: 25.2 x 16.2 x 3.85 cm (DxHxW) = 1,57 litre Dimensions with stand: 25.2 x 18.5 x 10.04 cm (DxHxW) Weight: 1.8 kg net, 2.5 kg gross Hole for the Kensington Lock at the back panel Optional accessory: 75mm and 100mm VESA mounting kit (PV01) Warning: Please make sure the system is always placed upright using either its stand or the optional VESA mount. Ventilation holes must not be blocked to ensure sufficient cooling.
Operation System	Microsoft Windows 7 Home Premium, 32 bit version 6 languages available: German, English, French, Dutch, Italian, Spanish
Processor	Intel Dual-Core Atom processor D525 (Codename: Pineview-D) 45nm manufacturing process, FCBGA559 Intel Hyper-Threading technology: 2-threads per core Intel 64 architecture, Core clock: 2x 1.8GHz, L2 Cache: 1024kB , TDP: max. 13W Integrated North Bridge with controller for memory and graphics
Cooling	Passive, completely fanless cooling
Chipset	Intel® NM10 Express Chipset Platform Controller Hub (PCH), Code name: Tiger Point
BIOS	AMI BIOS in a 2Mbit Flash ROM supports PnP, ACPI 3.0 Supports external USB flash memory card boot up
Memory	2 GB DDR3 SO-DIMM memory (204 pins)
Hard disk drive	500 GB Serial ATA hard disk drive 6.35cm/2.5" format, 5400 rpm, 9.5mm height
Optical drive	Slim-line DVD±RW super multi drive Serial ATA interface, 12.7mm height

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Discrete Graphics	Graphics processor: Next Generation NVIDIA ION, Video RAM: 512MB DDR3 Power consumption: TDP = 12 Watts, DirectX 10.1 Two display ports support Extended Desktop Mode and Clone Mode: - Digital HDMI v1.3 output (DVI via adapter), max. 1920 x 1200 - Analog VGA output, max. 2048 x 1536 NVIDIA PureVideo HD supports full HD decode (1080i/p)
Integrated Audio	IDT92HD81 Audio Codec with Azalia support Two analog audio connectors (3.5mm): 1) Line out (head phone), 2) microphone input Digital Audio via HDMI port
Card Reader	4-in-1 card reader at the front side, PCIe Interface Supports SDHC, SD, MS und MS-pro memory cards
Wired Network	RJ45 connector supports Gigabit LAN at 10/100/1000 Mbit/sec. Supports Deep Sleep Mode (DSM)
Wireless Network	Supports IEEE 802.11b/g/n Half size Mini-PCIe-Card
Connectors	HDMI v1.3 supports Digital Video and Digital Audio VGA Analog Video (D-Sub 15 pol., analog) 5x USB 2.0 (1x front, 4x rear) Gigabit Network (LAN, RJ45) Audio Line-out (head phone) Microphone input DC input for power adapter
LEDs and Buttons	Power button Power LED (white), Hard disk LED (blue)
Power supply	External 40W AC/DC power adapter (fanless) AC Input: 100~240V AC, 50~60Hz Dimensions: 89.5 x 37 x 26.5 mm (LWH)
Certification	EMI: CE, FCC, BSMI, C-Tick; Safety: CB, BSMI, ETL Other compliances: RoHS, Eup Lot6
Environmental Spec	Operating temperature range: 0~35°C
Conformity	This device is classed as a technical information equipment (ITE) in class B and is intended for use in living room and office. The CE-mark approves the conformity by the EU-guidelines: - EMV-guideline 89/336/EWG electromagnetic tolerance - LVD-guideline 73/23/EWG use of electric devices within certain voltage-limits
Warranty	24 Months Pick-Up-And-Return Service

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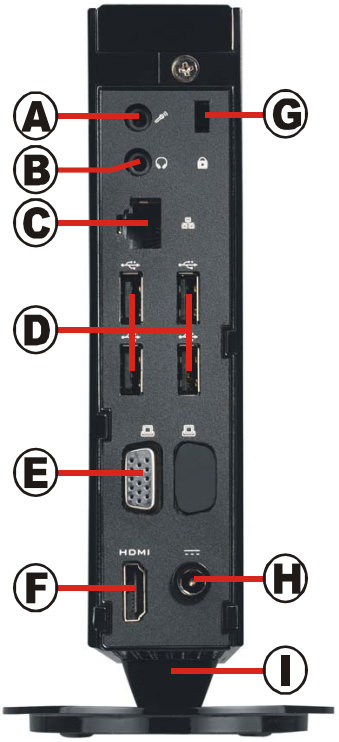
Shuttle Barebone XS 3510MA V2– Connectors

Front Panel

1 4-in-1 card reader
2 USB connector
3 Power button with power and hard disk LED
4 Bay for optical slim drive *)
5 Stand

Back Panel



A Microphone input
B Head phone output (line out)
C Network connector (RJ45)
D 4x USB connectors
E VGA connector
F HDMI connector
G Hole for the Kensington lock
H Connector for power adapter
I Stand

Notes: The right D-sub port will not be functional and be covered with a cap.
*) The optical drive is not included.

Warning:
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